

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3586	375/130,140,146,147,149.ccls.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:42
L2	1966	375/239,259,271,286,287,289.ccls.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:43
L3	926	342/21,22,27.ccls.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:43
L4	7132	455/403,422.1,426.1,130,227,266, 296,311,313,323,324.ccls.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:43
L5	312	(rectif\$4) with (filter\$5 or equali\$6) same (uni\$1direction\$3)	US-PGPUB; USPAT	OR	ON	2007/05/10 12:44
L6	0	4 and 5	US-PGPUB; USPAT	OR	ON	2007/05/10 12:44
L7	1	2 and 5	US-PGPUB; USPAT	OR	ON	2007/05/10 12:44
L8	2	(adjust\$4 or fix\$5 or correct\$3 or determin\$7 or estimat\$3 or calculat\$3 )near4 polarity same ((uni near3 direction\$4) or (anti near2 podal)) same phase near4 inver\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 12:45
L9	35	(adjust\$4 or fix\$5 or correct\$3 or determin\$7 or estimat\$3 or calculat\$3 )same ((uni near3 direction\$4) or (anti near2 podal)) same phase near4 inver\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 12:46
L11	0	2 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 12:46
L12	266	(en\$1cod\$3) near4 (positive or "+ve") near5 (negative or "-ve") near5 (pulse or wave\$1form or signal)	US-PGPUB; USPAT	OR	ON	2007/05/10 12:47
L13	15	2 and 12	US-PGPUB; USPAT	OR	ON	2007/05/10 12:47
L14	1	4 and 12	US-PGPUB; USPAT	OR	ON	2007/05/10 12:47
L15	31	BERGER-HARVEY-L.in.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:47
L16	12	FISCHER-GERALD-R.in.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:47
S4	204	Mccorkle.in.	US-PGPUB; USPAT	OR	ON	2007/05/09 12:30

## EAST Search History

S5	30	BERGER-HARVEY-L.in.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:47
S6	12	FISCHER-GERALD-R.in.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:47
S7	29	S5 not S6	US-PGPUB; USPAT	OR	ON	2006/11/06 09:52
S8	1	(en\$1cod\$3) near3 (binary) near3 data with (positive same negative) same (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/06 09:54
S9	1	(en\$1cod\$3) near3 (binary) with (positive same negative) same (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/08 14:49
S10	1	(en\$1cod\$3) with (binary) with (positive same negative) same (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/06 09:54
S11	1	(en\$1cod\$3) same (binary) with (positive same negative) same (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/06 09:54
S12	1	(en\$1cod\$3) same (binary) same (positive same negative) same (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 11:15
S13	6	(en\$1cod\$3) with (positive same negative) same (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/06 09:57
S14	5	(bi\$1polar) near3 modulat\$3 same (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/06 09:58
S15	9	(bi\$1polar) near5 modulat\$3 same (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/06 09:58
S16	6	S15 not S13	US-PGPUB; USPAT	OR	ON	2006/11/06 09:58
S17	155	(detect\$3 or estimat\$3 or evaluat\$3) with (pulse or wave\$1form or signal) with ((zero or "0") near4 amplitude) same threshold	US-PGPUB; USPAT	OR	ON	2006/11/08 15:03
S18	3303	(ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/08 15:03
S19	1	S17 and S18	US-PGPUB; USPAT	OR	ON	2006/11/08 14:49
S20	42601	(opposite with phase)	US-PGPUB; USPAT	OR	ON	2006/11/08 14:50
S21	9	S17 and S20	US-PGPUB; USPAT	OR	ON	2006/11/08 14:50

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S22	414	(detect\$3 or estimat\$3 or evaluat\$3) with (pulse or wave\$1form or signal) same ((zero or "0") near4 amplitude) same threshold	US-PGPUB; USPAT	OR	ON	2006/11/08 14:51
S23	1	S18 and S22	US-PGPUB; USPAT	OR	ON	2006/11/08 14:51
S24	1474	((zero or "0") near4 amplitude) same threshold	US-PGPUB; USPAT	OR	ON	2006/11/08 14:52
S25	4	S18 and S24	US-PGPUB; USPAT	OR	ON	2006/11/08 14:52
S26	17	(ultra\$1wide\$1band or "uwb") same ((zero or "0") near4 amplitude)	US-PGPUB; USPAT	OR	ON	2006/11/08 16:38
S27	15	S26 not S25	US-PGPUB; USPAT	OR	ON	2006/11/08 16:35
S28	1	"6947492"	US-PGPUB; USPAT	OR	ON	2006/11/08 16:37
S29	199	(ultra\$1wide\$1band or "uwb") near3 carrier	US-PGPUB; USPAT	OR	ON	2006/11/09 16:10
S30	1	(rectif\$4) with (filter\$5 or equali\$6) same (ultra\$1wide\$1band or "uwb") with (uni\$1direction\$3)	US-PGPUB; USPAT	OR	ON	2006/11/09 11:16
S31	1	(rectif\$4) with (filter\$5 or equali\$6) same (ultra\$1wide\$1band or "uwb") same (uni\$1direction\$3)	US-PGPUB; USPAT	OR	ON	2006/11/09 11:16
S32	308	(rectif\$4) with (filter\$5 or equali\$6) same (uni\$1direction\$3)	US-PGPUB; USPAT	OR	ON	2007/05/10 12:43
S33	164	S32 and (polarity)	US-PGPUB; USPAT	OR	ON	2006/11/09 11:18
S34	1	S33 and (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 13:30
S35	1	S32 and (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 11:30
S36	452	(rectif\$4) same (filter\$5 or equali\$6) same (uni\$1direction\$3)	US-PGPUB; USPAT	OR	ON	2006/11/09 11:17
S37	1	S36 and (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 11:18
S38	23164	(rectif\$4) with (filter\$5 or equali\$6)	US-PGPUB; USPAT	OR	ON	2006/11/09 11:17
S39	23	S38 and (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 11:18
S40	14	S39 and (polarity)	US-PGPUB; USPAT	OR	ON	2006/11/09 11:30

## EAST Search History

S41	3	(phase) near4 (invert\$3) with (polarity) and (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 11:32
S42	4	(phase) near4 (invert\$3) same (polarity) and (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 11:33
S43	1	(phase) near8 (invert\$3) same (polarity) same (uni\$1direction\$3) and (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 11:33
S44	1	(phase) near8 (invert\$3) same(uni\$1direction\$3) and (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 11:33
S45	1	"6947492"	US-PGPUB; USPAT	OR	ON	2006/11/09 13:29
S46	11	(time) near3 (slot\$3) same (channel) near4 en\$1cod\$3 and (ultra\$1wide\$1band or "uwb")	US-PGPUB; USPAT	OR	ON	2006/11/09 13:30
S47	1869	375/239,259,271,286,287,289.ccls.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:43
S50	1	(level or amplitude) with sens\$3 with (thershold or compar\$4) and (ultra\$1wide\$1band or "uwb") near3 carrier	US-PGPUB; USPAT	OR	ON	2006/11/09 16:11
S52	861	381/312,321.ccls.	US-PGPUB; USPAT	OR	ON	2006/11/09 16:46
S53	6653	455/403,422.1,426.1,130,227,266,296,311,313,323,324.ccls.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:43
S54	861	342/21,22,27.ccls.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:43
S55	2907	375/130,140,146,147.ccls.	US-PGPUB; USPAT	OR	ON	2006/11/09 17:18
S56	3358	375/130,140,146,147,149.ccls.	US-PGPUB; USPAT	OR	ON	2007/05/10 12:42
S57	266	(en\$1cod\$3) near4 (positive or "+ve") near5 (negative or "-ve") near5 (pulse or wave\$1form or signal) with (negative)	US-PGPUB; USPAT	OR	ON	2007/05/08 15:57
S58	1	S57 and ((ultra adj3 wide adj3 band) or "uwb")	US-PGPUB; USPAT	OR	ON	2007/05/08 15:57
S59	266	(en\$1cod\$3) near4 (positive or "+ve") near5 (negative or "-ve") near5 (pulse or wave\$1form or signal) \	US-PGPUB; USPAT	OR	ON	2007/05/08 15:58
S60	266	(en\$1cod\$3) near4 (positive or "+ve") near5 (negative or "-ve") near5 (pulse or wave\$1form or signal)	US-PGPUB; USPAT	OR	ON	2007/05/08 15:58

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S61	266	(en\$1cod\$3) near4 (positive or "+ve") near5 (negative or "-ve") near5 (pulse or wave\$1form or signal)	US-PGPUB; USPAT	OR	ON	2007/05/10 12:46
S62	4380330	(en\$1cod\$3) near4 (positive or "+ve") near5 (negative or "-ve") near5 (pulse or wave\$1form or signal) @ad<"20030916"	US-PGPUB; USPAT	OR	ON	2007/05/08 16:04
S63	229	(en\$1cod\$3) near4 (positive or "+ve") near5 (negative or "-ve") near5 (pulse or wave\$1form or signal) and @ad<"20030916"	US-PGPUB; USPAT	OR	ON	2007/05/08 17:22
S64	49	S63 and 375/???ccls.	US-PGPUB; USPAT	OR	ON	2007/05/08 16:33
S69	1	(en\$1cod\$3) with (positive or "+ve") near5 (negative or "-ve")same ((ultra adj3 wide adj2 band) or "UWB" or (impulse near2 radio)) and @ad<"20030916"	US-PGPUB; USPAT	OR	ON	2007/05/08 17:51
S71	2	"7010056"	US-PGPUB; USPAT	OR	ON	2007/05/08 17:55
S78	126	error same (zero or "0") near6 amplitude with threshold	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/05/08 18:01
S81	1	error same (zero or "0") near6 amplitude and ((ultra adj3 wide adj2 band) or "UWB") and @ad<"20030916"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/05/08 18:06
S84	110	"6026125"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/05/08 18:11
S85	36	(threshold) near5 zero near4 amplitude with noise	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/05/08 18:15
S86	1	S85 and ((ultra adj3 wide adj2 band) or "UWB")	US-PGPUB; USPAT	OR	ON	2007/05/08 18:14
S87	1	S85 and ((ultra adj3 wide adj2 band) or "UWB" or (impulse near4 radio))	US-PGPUB; USPAT	OR	ON	2007/05/08 18:15
S88	60	(threshold) with zero near4 amplitude with noise	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/05/08 18:15

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S89	1925	"60" and ((ultra adj3 wide adj2 band) or "UWB" or (impulse near4 radio))	US-PGPUB; USPAT	OR	ON	2007/05/08 18:15
S90	1	S88 and ((ultra adj3 wide adj2 band) or "UWB" or (impulse near4 radio))	US-PGPUB; USPAT	OR	ON	2007/05/08 18:17
S91	629	(threshold) with zero near4 amplitude	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/05/08 18:16
S92	3	S91 and ((ultra adj3 wide adj2 band) or "UWB" or (impulse near4 radio))	US-PGPUB; USPAT	OR	ON	2007/05/08 18:16
S93	1293	(threshold) with (zero or "0") near6 amplitude	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/05/08 18:17
S94	5	S93 and ((ultra adj3 wide adj2 band) or "UWB" or (impulse near4 radio))	US-PGPUB; USPAT	OR	ON	2007/05/08 18:17
S97	1	rectif\$7 with (filter\$5 or equaliz\$5) same (uni\$1direction\$4 or (uni adj2 direction\$4)) same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT	OR	ON	2007/05/09 15:32
S98	1	rectif\$7 same (uni\$1direction\$4 or (uni adj2 direction\$4)) same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT	OR	ON	2007/05/09 12:32
S99	1	rectif\$7 same ((one near3 directon\$4) or uni\$1direction\$4 or (uni adj2 direction\$4)) same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT	OR	ON	2007/05/09 12:33
S10 0	0	(bi adj2 polar) same (uni\$1direction\$4 or (uni adj2 direction\$4)) same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT	OR	ON	2007/05/09 15:33
S10 1	18	binary same (uni\$1direction\$4 or (uni adj2 direction\$4)) same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT	OR	ON	2007/05/09 15:36
S10 2	1	(positive with negative) same (uni\$1direction\$4 or (uni adj2 direction\$4)) same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT	OR	ON	2007/05/09 15:34

## EAST Search History

S10 3	1	filter\$7 same (uni\$1direction\$4 or (uni adj2 direction\$4)) same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT	OR	ON	2007/05/09 17:10
S10 4	6	filter\$7 same ((one near3 direction\$4) or uni\$1direction\$4 or (uni adj2 direction\$4)) same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT	OR	ON	2007/05/09 15:39
S10 5	8	"6512474"	US-PGPUB; USPAT	OR	ON	2007/05/09 15:39
S10 6	16	("3916324"   "4438519"   "5345471"   "5361070"   "5454012"   "5455593"   "5457394"   "5465094"   "5523760"   "5589838"   "5764699"   "5883591"   "5901172"   "6026125"   "6335946").PN. OR ("6512474").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/09 15:42
S10 9	28	"6700939"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 15:58
S11 0	1	(adjust\$4 or fix\$5 or correct\$3 or determin\$7)near4 polarity with (uni near3 direction\$4) same phase near4 inver\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 16:00
S11 1	2	(adjust\$4 or fix\$5 or correct\$3 or determin\$7)near4 polarity same (uni near3 direction\$4) same phase near4 inver\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 12:44
S11 2	350	(adjust\$4 or fix\$5 or correct\$3 or determin\$7)near4 polarity same phase near4 inver\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 17:10
S11 3	1	(adjust\$4 or fix\$5 or correct\$3 or determin\$7)near4 polarity same phase near4 inver\$6 same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 18:27
S11 4	1	(adjust\$4 or fix\$5 or correct\$3 or determin\$7) with polarity same phase near4 inver\$6 same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 17:11

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S11 5	1	(adjust\$4 or fix\$5 or correct\$3 or determin\$7) same polarity same phase near4 inver\$6 same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 17:11
S11 6	62	(adjust\$4 or fix\$5 or correct\$3 or determin\$7) same polarity same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 17:11
S11 7	20	(adjust\$4 or fix\$5 or correct\$3 or determin\$7) same polarity same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio)) same phase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 09:42
S11 8	21	("20030054764"   "20030093447"   "20030095609"   "20030096578"   "20040121728"   "3728632"   "3906453"   "4270209"   "4641317"   "4813057"   "4846920"   "4979186"   "5291202"   "5677927"   "5920278"   "6160259"   "6378080"   "6505032"   "6529568"   "6822508"   "6850733").PN. OR ("7020224").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/09 17:15
S11 9	42	S116 not S117	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 17:18
S12 0	7	(adjust\$4 or fix\$5 or correct\$3 or determin\$7 or calculat\$3 or estimat\$3) with polarity same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio)) same phase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 18:04
S12 1	54	(adjust\$4 or fix\$5 or correct\$3 or determin\$7 or calculat\$3 or estimat\$3) with polarity and ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio)) same phase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 18:12
S12 2	40	"6539213"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 18:12
S12 3	8	(adjust\$4 or fix\$5 or correct\$3 or determin\$7) with phase near4 inver\$6 same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 18:32



## EAST Search History

S12 4	12	(adjust\$4 or fix\$5 or correct\$3 or determin\$7) same phase near4 inver\$6 same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 18:32
S12 5	4	S124 not S123	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/09 18:32
S12 6	3	((uni adj3 direction\$4) or (one near3 direction)) same polarity same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio)) same phase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 09:43
S12 7	9	((uni adj3 direction\$4) or (one near3 direction)) same polarity same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 09:43
S12 8	9	((uni adj3 direction\$4) or (one near3 direction) or (uni adj3 polar)) same polarity same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 09:45
S12 9	74	((uni adj3 direction\$4) or (one near3 direction) or (uni adj3 polar)) same ((ultra adj2 wide adj2 band) or "uwb" or (impulse near3 radio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 09:45
S13 0	65	S129 not S128	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2007/05/10 09:46